COMBINED DECLARATION AND POWER OF ATTORNEY

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS, the specification of which was filed on November 13, 1997, as United States Serial No. 08/969,302

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Mary Rose Scozzafava, Reg. No. 36,268; Sam Pasternack, Reg. No. 29,576; Mary Raynor Jimenez, Reg. No. 37,219; David J. Powsner, Reg. No. 31,868; Brenda H. Jarrell, Reg. No. 39,223; Kevin M. Tormey, Reg. No. 41,351; and Paul Pyscher, Reg. No. 40,780.

Address all telephone calls to Mary Rose Scozzafava at (617) 248-5138. Address all correspondence to Mary Rose Scozzafava at Choate, Hall & Stewart, Exchange Place, 53 State Street, Boston, Massachusetts 02109.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor. Moungi Bawendi			
Inventor's signature My B. 1.	Date_	7/8/98	
Residence: 285 Beacon Street, Apt. 2B, Boston, MA 02116		•	
Citizenship: United States of America		·	·
Post Office Address: same			

OS1.375130.1

Full name of second inventor: Klaves F. Jensen Date 7/10/98
Residence: 103 Outlook Drive, Lexington, Massacrius Lexington
Citizenship: United States of America
Post Office Address: same
~ a
Full name of third inventor: Bashirg O. Dabbousi Date
Inventor's signature
Inventor's signature Residence: Saudi Aramco, P.O. Box 10125, Dhahran, 31311, Saudi Arabia
Citizenship: Saudi Arabia
Post Office Address: same
Full name of fourth inventor: <u>Javier Rodriguez-Viejo</u> Date
Inventor's signature
Inventor's signature Residence: Cami de Can Gatxet 57 3-1, 08190 Sant Cugat del Valles, Spain
Citizenship: Spain
Post Office Address: same
Full name of fifth inventor: Frederic Victor Mikulec Date 7-10-96
Inventor's signature friting Viting Not Seriosville Massachusetts 02144
Residence: 96 Willow Avenue, Apt. 2, Somerville, Massachusetts 02144
Citizenship: United States of America
Post Office Address: same
1 476 411144 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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Full name of sole or first inventor: Moungi Bawendi	
	Date
Inventor's signature	12178
Residence: 4 Trowbridge P. #3F, Cambridge, Massachusetts C	72176
Citizenship: United States of America	·
Post Office Address: same	

Full name of second inventor: Klavs F. Jensen	
Inventor's signature	Date
Residence: 103 Outlook Drive, Lexington, Massachusetts 021	73
Citizenship: United States of America	
Post Office Address: same	
Full name of third inventor: Bashir O. Dabbousi	
Inventor's signature Andria Stuffer	Date 6/13/9%_
Residence: Saudi Aramco, P.O. Box 10125, Dhahran, 31311,	Saudi Arabia
Citizenship: Saudi Arabia	
Post Office Address: same	
TOSE Office 7 and toss series	
Full name of fourth inventor: Xavier Rodriguez-Viejo	
Inventor's signature	Date
Residence: Cami de Can Gatxet 57 3-1, 08190 Sant Cugat del	Valles, Spain
Citizenship: Soain	
Post Office Address: same	
Total Control Control	
Full name of fifth inventor: Frederic Victor Mikulec	
Inventor's signature	Date
Residence: 96 Willow Avenue, Apt. 2, Somerville, Massachu	setts 02144
Citizenship: United States of America	
Post Office Address: same	
1 030 Office / 1001 0331 241112	•

OS1.375130.1

COMBINED DECLARATION AND POWER OF ATTORNEY

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS, the specification of which was filed on November 13, 1997, as United States Serial No. 08/969.302

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Full name of sole or first inventor: Moungl Bay	wend
Inventor's signature	Date
Residence: 4 Trowbridge P. #3F, Cambridge,	Massachusetts 02178
Citizenship: United States of America	
Post Office Address: same	

Full name of second inventor: Klavs F. Jensen	
Inventor's signature	Date
Residence: 103 Outlook Drive, Lexington, Massachusetts 021	
Cltizenship: United States of America	
Post Office Address: same	
	·
Full name of third inventor: Bashire O. Dabbousi	1
Inventor's signature	Date
Residence: Saudi Aramco, P.O. Box 10125, Dhahran, 31311	Saudi Arabia
Cltizenship: _Saudi_Arabia	
Post Office Address: same	
Full name of fourth inventor: lavier Rodriguez-Vielo	
Inventor's signature .	Date 06 - 19 - 98
inventor's signature .	Date <u>66 - 19 - 98</u> Valles, Spain
Residence: Cami de Can Gatxet 57 3-1. 08190 Sant Cugat de	
Residence: Cami de Can Gatxet 57 3-1, 08190 Sant Cugat del Citizenship: Soain	
Residence: Cami de Can Gatxet 57 3-1. 08190 Sant Cugat de	
Residence: Cami de Can Gatxet 57 3-1, 08190 Sant Cusat del Citizenship: Spain Post Office Address: same	
Residence: Cami de Can Catxet 57 3-1, 08190 Sant Cusat del Citizenship: Soain Post Office Address: same Full name of fifth inventor: Frederic Victor Mikulec	Valles, Spain
Residence: Cami de Can Garset 57 3-1. 08190 Sant Cusat del Citizenship: Soain Post Office Address: same Full name of fifth inventor: Frederic Victor Mikulec Inventor's signature	Valles, Spain Date
Residence: Cami de Can Gatxet 57 3-1. 08190 Sant Cugat del Citizenship: Soain Post Office Address: same Full name of fifth inventor: Frederic Victor Mikulec Inventor's signature Residence: 96 Willow Avenue, Apt. 2, Somerville, Massachu	Valles, Spain Date
Residence: Cami de Can Garset 57 3-1. 08190 Sant Cusat del Citizenship: Soain Post Office Address: same Full name of fifth inventor: Frederic Victor Mikulec Inventor's signature	Valles, Spain Date

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONES
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 05, 1998

PTAS

100784159A

CHOATE, HALL & STEWART MARY ROSE SCOZZAFAVA EXCHANGE PLACE 53 STATE STREET BOSTON, MA 02109

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/16/1998

REEL/FRAME: 9327/0361

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BAWENDI, MOUNGI

DOC DATE: 07/10/1998

ASSIGNOR:

JENSEN, KLAVS F.

DOC DATE: 07/10/1998

ASSIGNOR:

DABBOUSI, BASHIR O.

DOC DATE: 06/21/1998

ASSIGNOR:

RODRIGUEZ-VIEJO, JAVIER

DOC DATE: 06/19/1998

ASSIGNOR:

MIKULEC, FREDERIC VICTOR

DOC DATE: 07/10/1998

ASSIGNEE:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVE. CAMBRIDGE, MASSACHUSETTS 02139 9327/0361 PAGE 2

SERIAL NUMBER: 08969302

PATENT NUMBER:

FILING DATE: 11/13/1997

ISSUE DATE:

PAULA MCCRAY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

	FORM PTO-1595 (Rev. 6-93)	07-24-199	8	ER SF	EET		ENT OF COMMERCE and Trademark Office
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1	To the Honorable Commissioner or	ram	,,,,,,,	the attach	ed original	documents or co	py thereof.
05-1 (1)	1. Name of conv ying party(ies): (1) Moungi Bawendi (2) KI (3) Bashir O. Dabbousi (4) Javier Rodriguez-Vies	(5) December 1		Name: Mass	achuse	ceiving party(ies etts Instit	tute of
M	Additional name(s) of conveying party(les) attac	ched? ☐ Yes 🔀 No				20 =: :	
	 Nature of conveyance: Assignment 	☐ Merger		Street Address:	77 Mas	ssachusetts	s Ave.
	☐ Security Agreement	☐ Change of Name		City Cambri	dae	State: MA	ZIP: 02139
	Execution Date: (1), (2), (5) 7/(3) 6/21/98 (4) 6/19/			,		s) attached? D Yes	
	 Application number(s) or patent nur If this document is being filed toget A. Patent Application No.(s) 08/969, 302 			B. Patent No.(§	class mail in	ithe that this correspond the United States Post an envelope address For Patents, Washing	tal Service as first
	Name and address of party to whom concerning document should be ma	•	6.	Total number of	application	ns and patents in	volved:
	Name: Mary Rose Scozza		7.		FR 3.41)	\$_40.0	0
	Internal Address: <u>Choate, Hal</u> Exchange Place			EnclosedAuthorized to	to be char	ged to deposit a	ccount
	Street Address: 53 State St	reet	8.	Deposit accour	it number:		
\setminus	City: Boston State:	<u>ма</u> ZIP: <u>0210</u> 9		(Attach duplicate c	opy of this p	age if paying by dep	osit account)
07/ 2 01 FS	9. Statement and signature. To the best of my knowledge and b	DO NOT US			ect and an	v attached conv	is a true con
	the original document. Mary Rose Scozzafava	<u>May k</u>	1	1 1		Qu	ly 16,1
	Name of Person Signing	otal number of pages including	Signa	ature	and docume	ent: 8	Date

ASSIGNMENT

Lexington, Massachusetts; and Frederic Victor Mikulec of Somerville, Massachusetts having invented certain new and useful improvements in HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS for which we have made application for United States Letters Patent, the said application filed on November 13, 1997, as U.S. Serial No.08/969,302

WHEREAS, Massachusetts Institute of Technology a non-profit educational institution having offices at 77 Massachusetts Avenue, Cambridge, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, We do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said application and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set my hand and seal at facultudge His
this 10 th day of wile 19 45.
Moungi Bawendi
Moungi Bawendi
SS. COUNTY OF Medicies SS. Before me this 10th day of 1998, personally appeared Moungi Bawendi known to me to be the person whose name of subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.
\mathcal{L}_{i}
NOTARY PUBLIC
CAROL PHILLIPS Notary Public
My Commission Expires April 23, 2004
IN WITNESS WHEREOF, I hereto set my hand and seal at and seal at 1995.
Eller Herri
Klavs F. Jensen
STATE OF MELON MICHELLE. SS.
COUNTY OF Madesey
Before me this day of new 1998; personally appeared Klavs F. Jensen known to me to be the person whose name of subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained. NOTARY PUBLIC

[Notary's Seai Here]

My Commission Expires:

CAROL PHILLIPS
Notary Public
My Commission Expires April 23, 2004

IN WITNESS WHEREOF, I hereto set my ha	and and seafat where the 111			
this 10th	day of 1948.			
Kriden Vin	tu Man			
Frederick Victor Mikulec /				
Frm				
STATE OF Massachusette SS. COUNTY OF Middlesen				
Frederick Victor Mikulec known to me to be the foregoing Assignment and acknowledged	the person whose name of subscribed to			
and deed for the purposes therein contained.	that he executed the same as his nee act			
y .	Caraca a. Phellipa			
[Notary's Seal Here]	My Commission Expires:			
	CAROL PHILLIPS Notary Public My Commission Expires April 23, 2004			
DS1.375105.1				
	*			

ASSIGNMENT

WHEREAS, I, Bashir O. Dabbousi of Saudi Arabia; having invented certain new and useful improvements in HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS for which I am making application for a United States Patent, the said application attached hereto; and

WHEREAS, Massachusetts Institute of Technology a non-profit educational institution having offices at 77 Massachusetts Avenue, Cambridge, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), is desireous of acquiring my entire right, title and interest in and to the invention, and in and to the said Applications and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, I do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said Applications and all patents which may granted therefore, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said Applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

Bashir O. Dabbousi	6/21/98
Witnessed by:	
M. Osama B. Dalhouse.	21 June 98
Name:	Date:
Rasha Daadaush Parties	23 june 98
Name:	Date:

D\$1,415600

ASSIGNMENT

WHEREAS, I, Xavier Rodriguez-Viejo of Sant Cugat del Vailes, Spain; having invented certain new and useful improvements in HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS for which I am making application for a United States Patent, the said application attached hereto; and

WHEREAS, Massachusetts Institute of Technology a non-profit educational institution having offices at 77 Massachusetts Avenue, Cambridge, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), is desireous of acquiring my entire right, title and interest in and to the invention, and in and to the said Applications and any Letters Patent that may issue thereon;

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SIGNED BY:

Xavler Rodriguez-Viejo

Witnessed by:

LIE L. TOURON (MI 46809691)
Name:

ESTER HURTOS (DNI 17913498)
Name:

06-19-98

06-19-98

Date:

06-19-98.

Date:

DS1.415600

Attorney's Do No.: 01997-272001 / MIT 7771

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Moungi Bawendi et al.

Art Unit : 1773

Serial No.: 08/969,302

Examiner: H. Le

Filed

: November 13, 1997

Title

: HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS

Assistant Commissioner for Patents

Washington, D.C. 20231

TRANSMITTAL OF REVOCATION AND NEW POWER OF ATTORNEY

Enclosed is a Revocation and New Power of Attorney. Please charge any required fee, or make any credits, to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 3-30-00

Y Rocky Tsao

Reg. No. 34,053

Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804 Telephone: (617) 542-5070

Facsimile: (617) 542-8906

20044337.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date of

Signature

Typed or Printed Name of Person Signing Certificate

Attorney's Dc No.: 01997-272001 / MIT 7771

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Moungi Bawendi et al. Art Unit: 1773 Serial No.: 08/969,302 Examiner: H. Le

Filed: November 13, 1997

Title : HIGHLY LUMINESCENT COLOR-SELECTIVE MATERIALS

Assistant Commissioner for Patents Washington, D.C. 20231

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b), Massachusetts Institute of Technology, a corporation, certifies that it is the assignee of 100% of the right, title and interest in the patent application identified above by virtue of:

An assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 9327, Frame 0361 on July 16, 1998.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the application and appoints:

Eric L. Prahl, Reg. No. 32,590 Y. Rocky Tsao, Reg. No. 34,053 Frank R. Occhiuti, Reg. No. 35,306 FISH & RICHARDSON P.C. 225 Franklin Street Boston, MA 02110-2804

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

licant: Moungi Bawend 1.

rial No.: 08/969,302

: November 13, 1997

Page : 2

with full power of substitution and revocation, to prosecute the application and to transact all business in the United States Patent and Trademark Office connected therewith.

All correspondence regarding the application should be sent to ERIC L. PRAHL at:

FISH & RICHARDSON P.C. 225 Franklin Street Boston, MA 02110-2804

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Attorney's Doc No.: 01997-272001 / MIT 7771

Date: March 14, 2000

JARMILA HRBEK
Patent/Administrator

Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804 Telephone: (617) 542-5070

Facsimile: (617) 542-8906

20035886.doc

01997/272001





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENT AND TRADEMARKS Washington, D.C. 20231

YAT

APPLICATION NUMBER

FILING DATE

FIRST NAMED APPLICANT

ATTY. DOCKET NO./TITLE

08/969,302

11/13/1997

MOUNGI BAWENDI

M1T-7771

FISH & RICHARDSON 225 FRANKLIN STREET BOSTON, MA 02110-2804

#14

Date Mailed: 04/17/2000

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 04/03/2000.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

RECEIVED

APR 2 0 2000

FISH & RICHARDSON, P.G.
BOSTON OFFICE

Customer Service Center

Initial Patent Examination Division (703) 308-1202

ATTORNEY/APPLICANT COPY

* No Docketing Required *
Reviewed By / Hactige Systems

Initials:

Review: Chilling Secretary

Million